Restriction Digest Protocol

Note: Restriction Digests should be done on ice.
A Qubit Quantification must be done prior to preforming the digest.

1) Calculate the amount of DNA you will need to but put into a 50mL reaction.
    a. (Concentration 1)(Volume 1) = .5µg
        i. Concentration 1 = DNA Concentration
2) Calculate how much DepC water is necessary to bring the volume (with buffer, enzyme, and DNA) to bring the reaction volume up to 25µL.
3) Appropriately label PCR tubes.
4) Add the calculated amount of DepC water into each tubes.
5) Add 5µL of Buffer.
    a. Note: Check on the NEB website to see which buffer should be used for each enzyme.
6) Add 1µL of each enzyme into each tube.
7) Add the calculated amount of DNA into each tube.
8) Put tubes into the Thermal Cycler
    a. Check the NEB website to check the Incubation Temperature. These are enzyme dependent.
    b. Edit the **iGEMP002** as necessary.
9) Store at -20°C